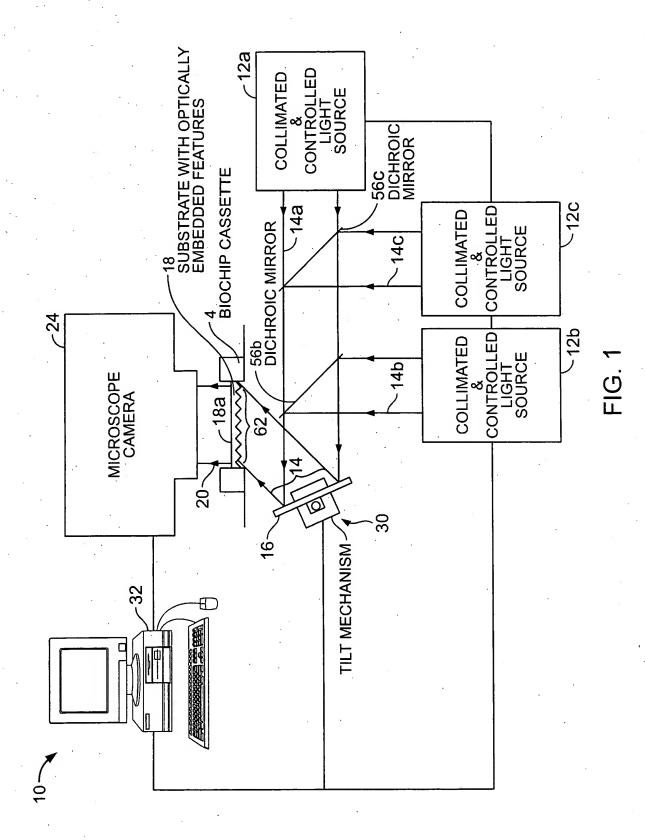


Page 1 of 25 EXCITATION AND IMAGING OF FLUORESCENT ARRAYS Jean I. Montagu et al. 10/618,838 13165-003001



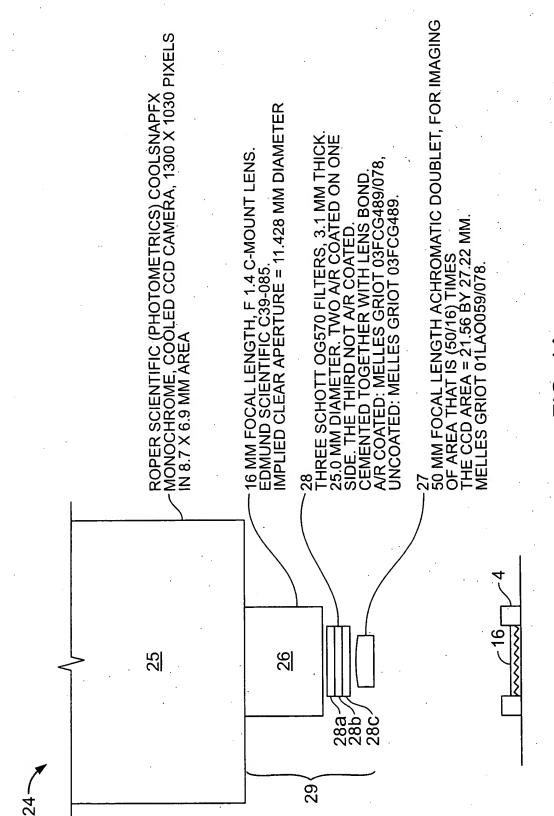
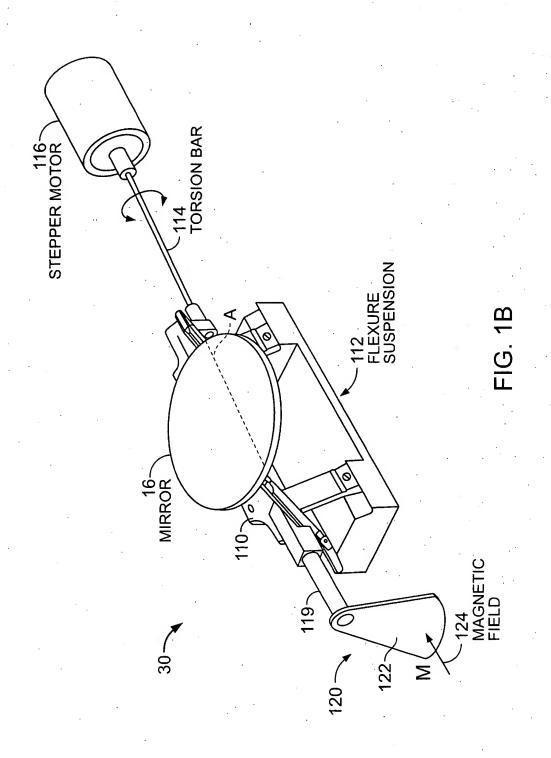


FIG. 1A



Page 4 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001

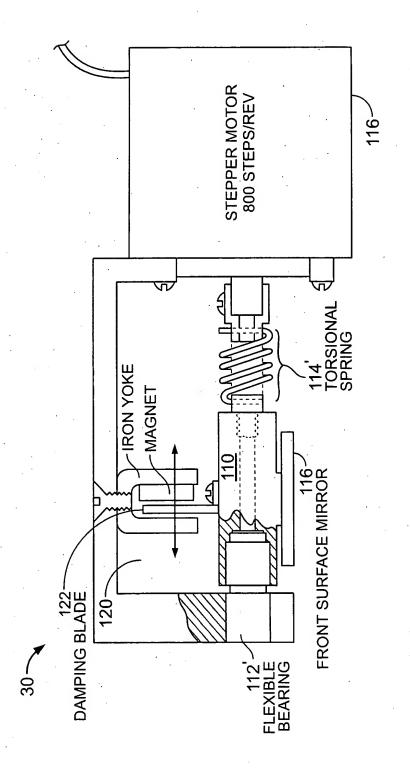


FIG. 10

Page 5 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001

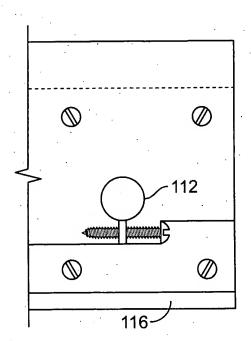
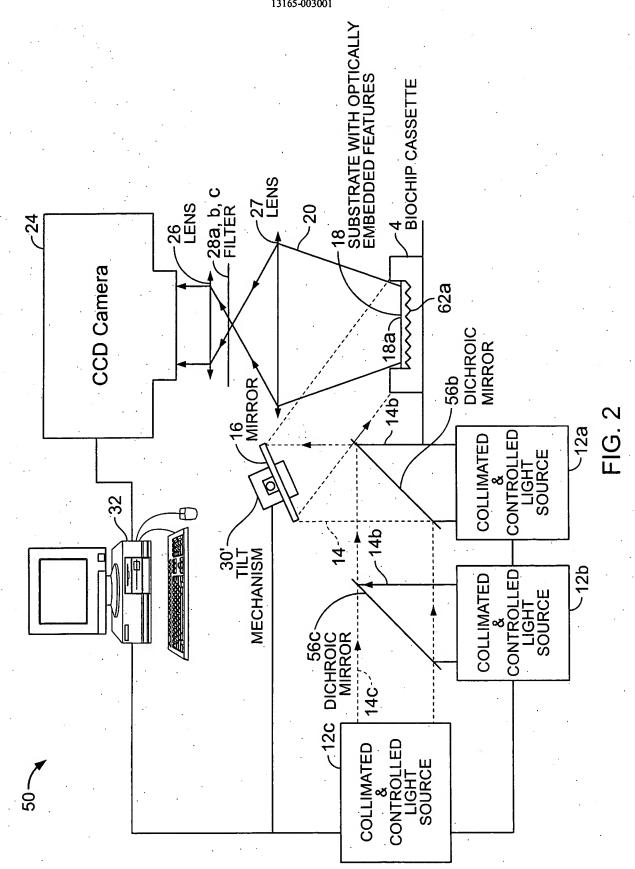
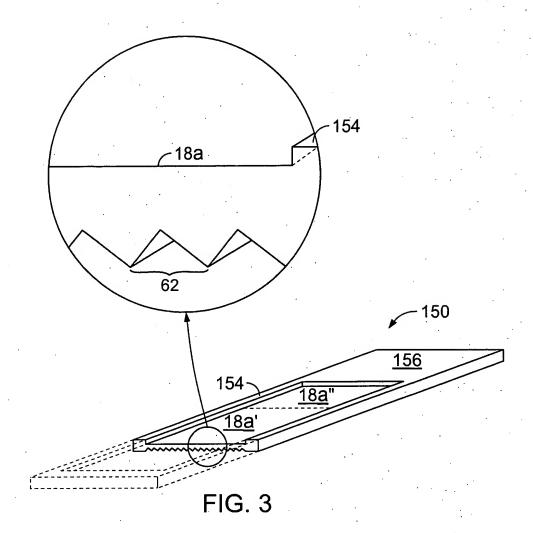


FIG. 1D

Page 6 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001





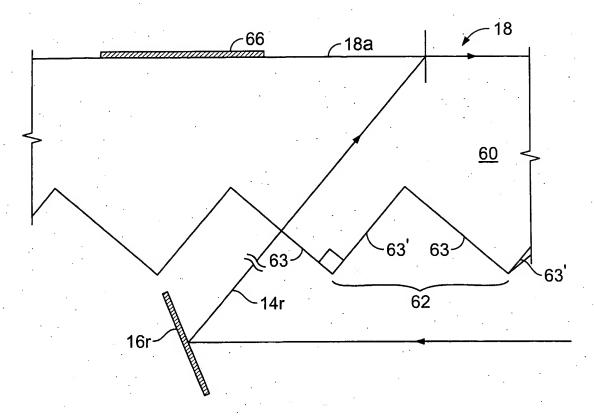


FIG. 3A

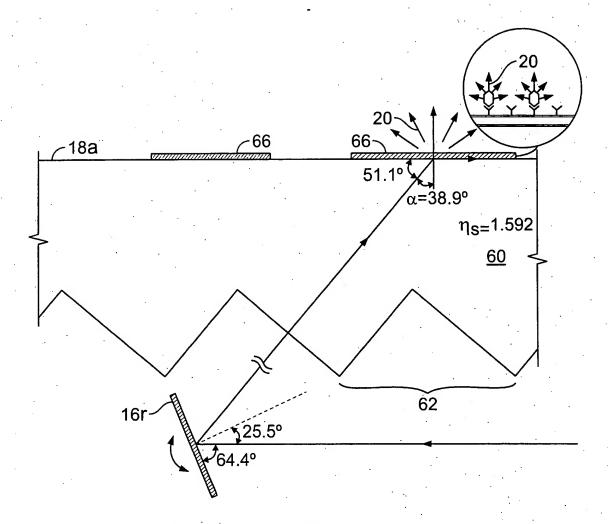
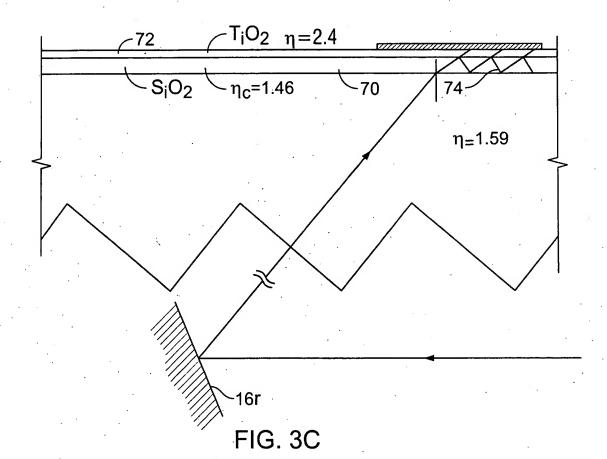
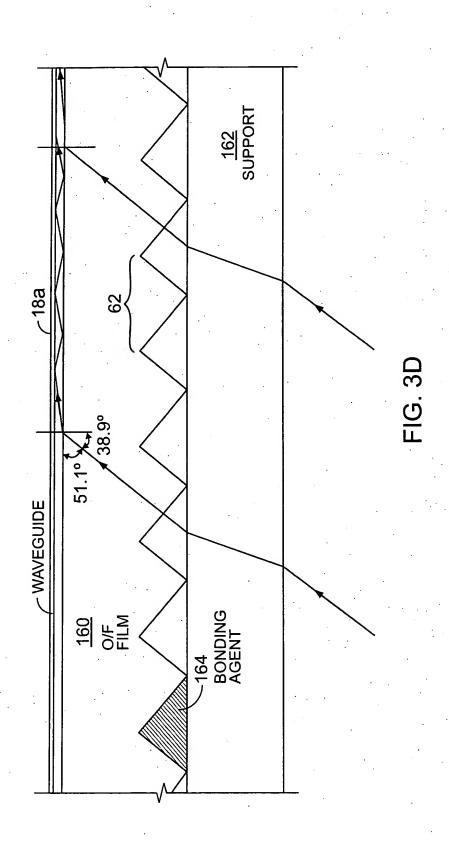


FIG. 3B



Page 11 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001



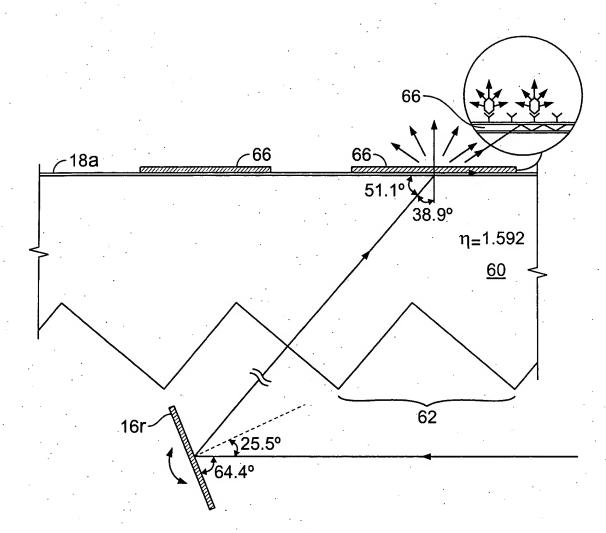


FIG. 3E

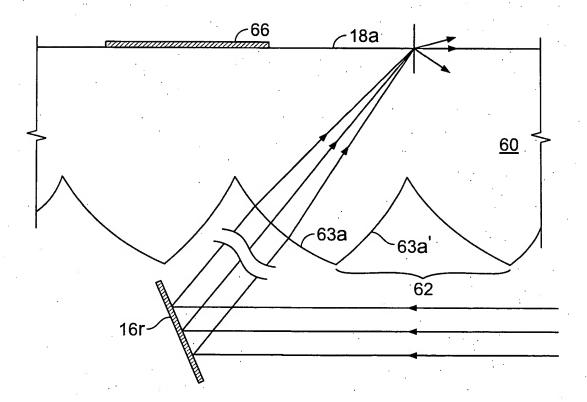


FIG. 3F

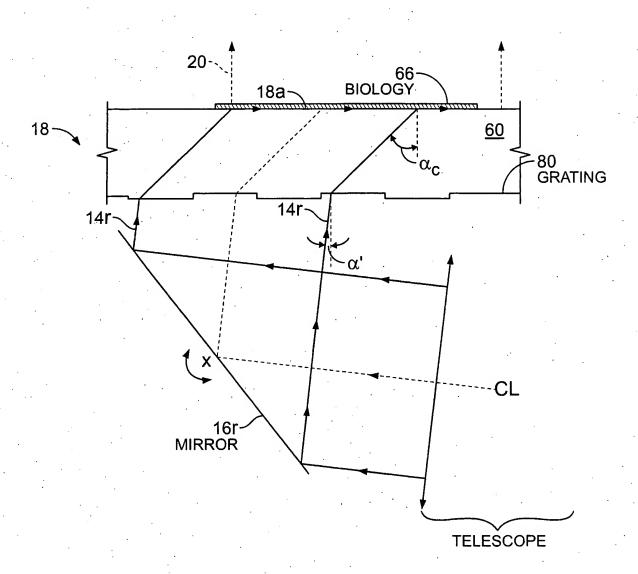


FIG. 3G

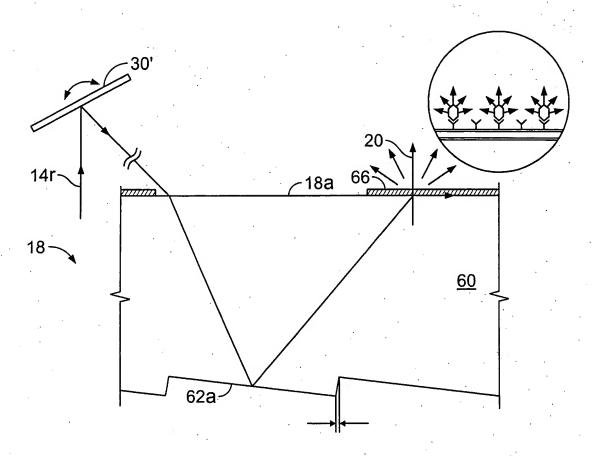


FIG. 4

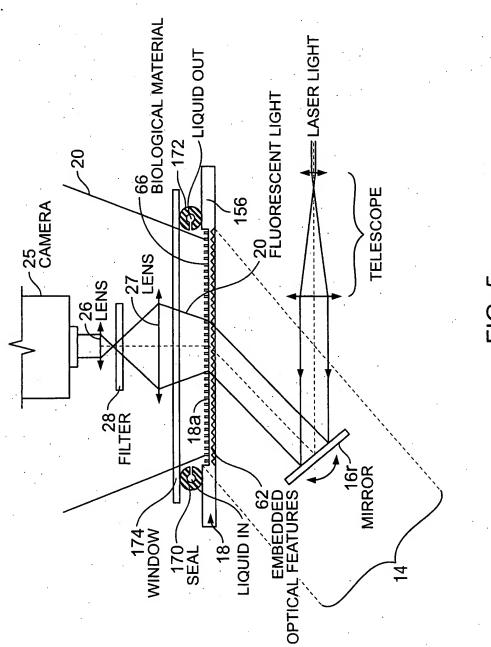
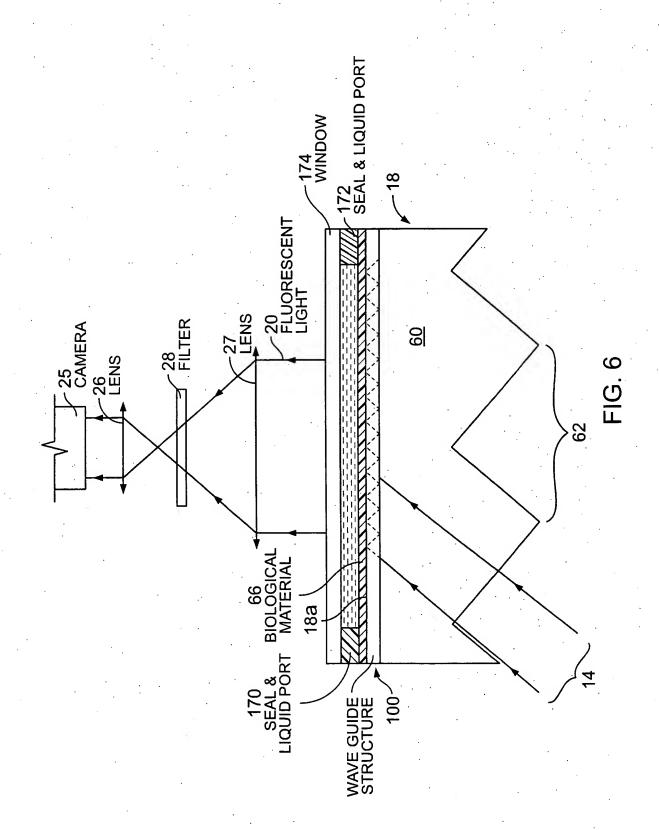
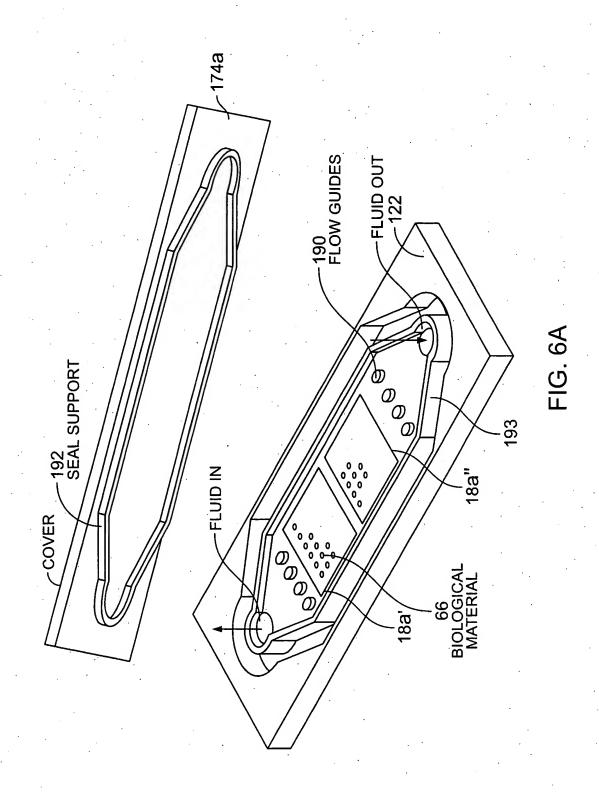


FIG. 5

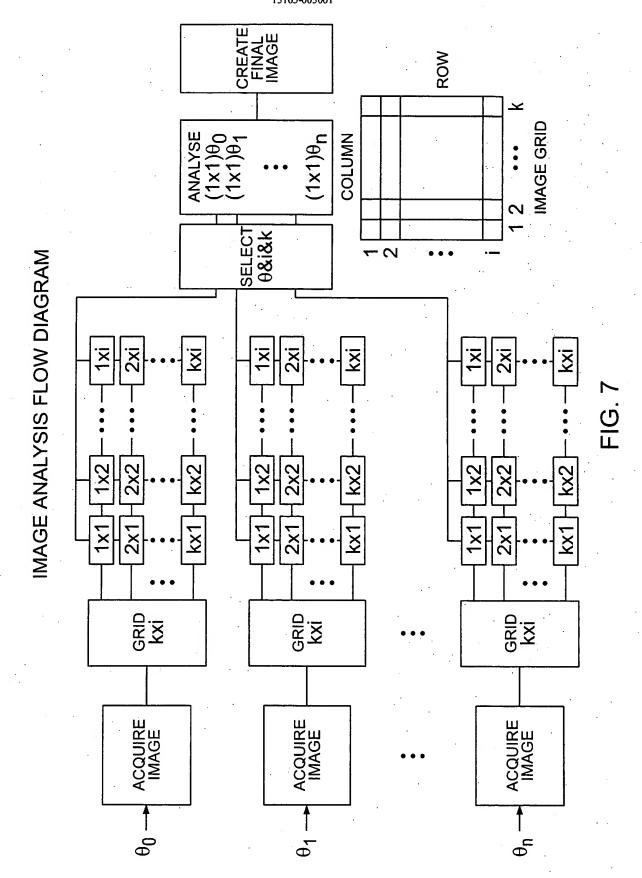
Page 17 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001



Page 18 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001



Page 19 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001



Page 20 of 25 EXCITATION AND IMAGING OF FLUORESCENT ARRAYS Jean I. Montagu et al. 10/618,838 13165-003001

SET A MOST PROBABLE ANGLE OF INCIDENCE. θ_{Ω} **ACQUIRE AN IMAGE** STORE IMAGE 0 GRID IMAGE - ixk GRIDS, EACH UNIT IS ANALYZED AND DEFINED BY A NUMBER INCREMENT ANGLE θ₁ ACQUIRE AN IMAGE STORE IMAGE 1 GRID IMAGE - ixk GRIDS, EACH UNIT IS ANALYZED AND DEFINED BY A NUMBER INCREMENT ANGLE θ₂ ACQUIRE AN IMAGE STORE IMAGE 2 GRID IMAGE - ixk GRIDS, EACH UNIT IS ANALYZED AND DEFINED BY A NUMBER INCREMENT ANGLE θ_n ACQUIRE AN IMAGE STORE IMAGE n GRID IMAGE - ixk GRIDS, EACH UNIT IS ANALYZED AND DEFINED BY A NUMBER ANALYZE GRID UNIT 1x1 FROM ANGLE θ₀ TO ANGLE θn AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT 1x1 ANALYZE GRID UNIT 1x2 FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT 1x2

FIG. 7A

Page 21 of 25 EXCITATION AND IMAGING OF FLUORESCENT ARRAYS Jean I. Montagu et al. 10/618,838 13165-003001

ANALYZE GRID UNIT 1xi FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT 1xi ANALYZE GRID UNIT 2x1 FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT 2x1 ANALYZE GRID UNIT 2x2 FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT 2x2 ANALYZE GRID UNIT 2xi FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT 2xi ANALYZE GRID UNIT kx1 FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT kx1 ANALYZE GRID UNIT kx2 FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT kx2 ANALYZE GRID UNIT kxi FROM ANGLE θ_0 TO ANGLE θ_n AND ACCORDING TO A CHOSEN ALGORITHM, SELECT IMAGE OF A GRID UNIT FOR STORAGE IN FINAL FRAME AS GRID UNIT kxi FINAL FRAME QUILT OF SELECTED REGIONS COMPLETE

Page 22 of 25 EXCITATION AND IMAGING OF FLUORESCENT ARRAYS Jean I. Montagu et al. 10/618,838 13165-003001

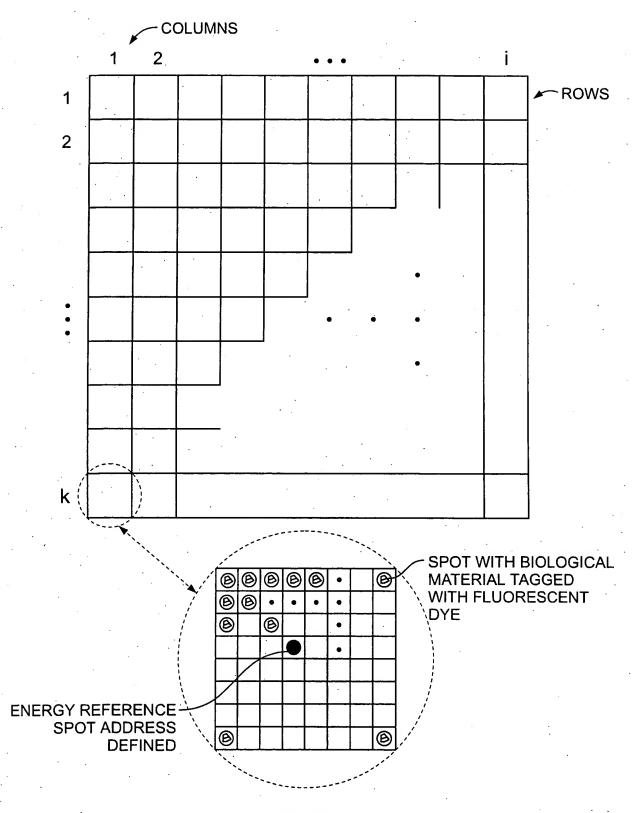
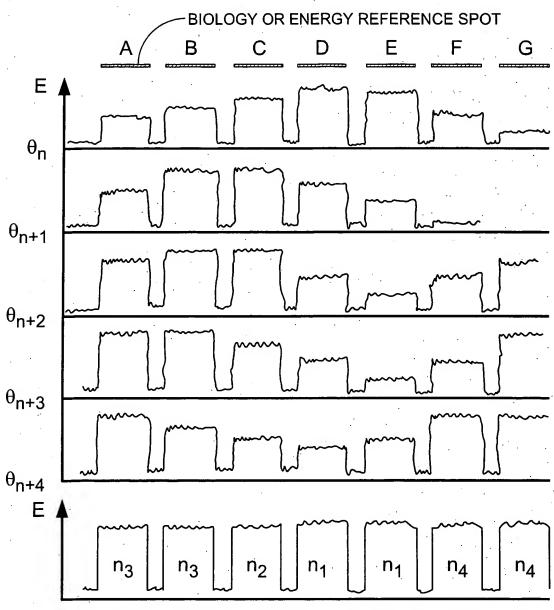


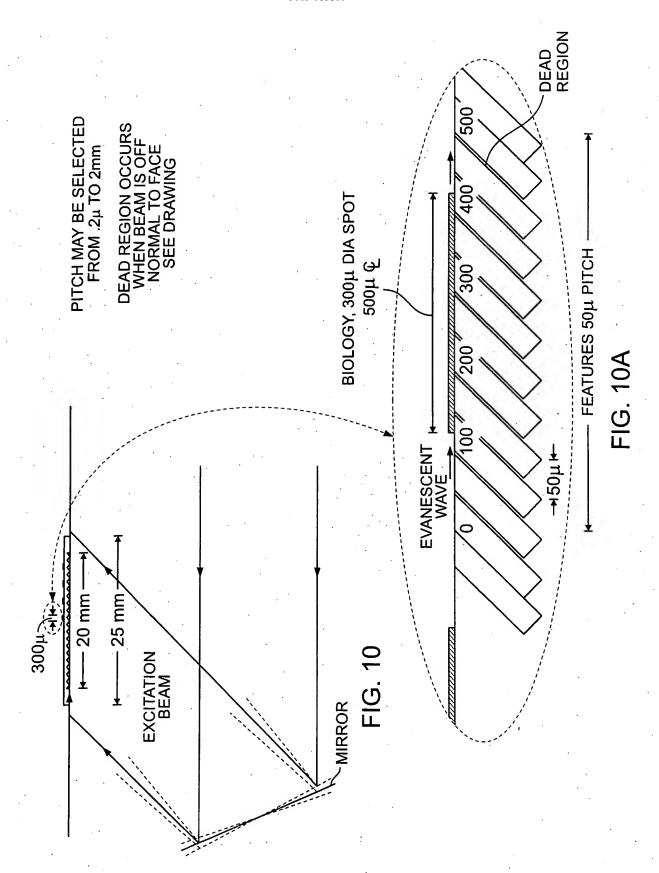
FIG. 8



Selection of Region of Maximum Signal as Angle θ_n Changes to θ_{n+4}

FIG. 9

Page 24 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001



Page 25 of 25
EXCITATION AND IMAGING OF FLUORESCENT ARRAYS
Jean I. Montagu et al.
10/618,838
13165-003001

